CSCE 3304 - Digital Design 2 Project 1 A small standard cell library

Abdelsalam ElTamawy 900170376 Emman Nada Badawy 900171975

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1 Introduction

2 Inverter

2.1 Schematic

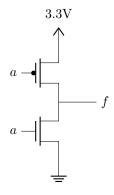


Figure 1:

- 2.2 Stick diagram
- 2.3 Schematic
- 3 Tri-state Inverter
- 4 3 input NAND
- 5 3 input NOR

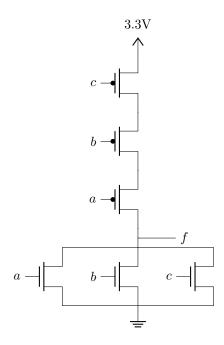


Figure 2:

6 Complex function

6.1 Schematic

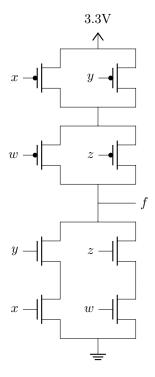


Figure 3:

6.2 Stick diagram

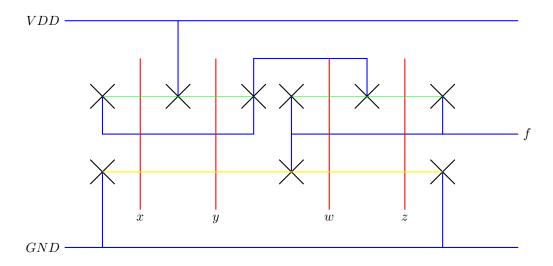


Figure 4:

- 6.3 Layout
- 6.4 Transition time
- 6.5 Data collection
- 6.6 Minimum cell height

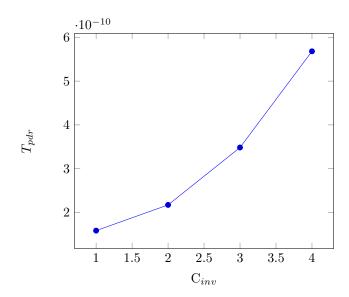


Figure 5: T_{pdr} to C_{inv} under 100ns transition time